

Figure 1A
Full-length NPAT

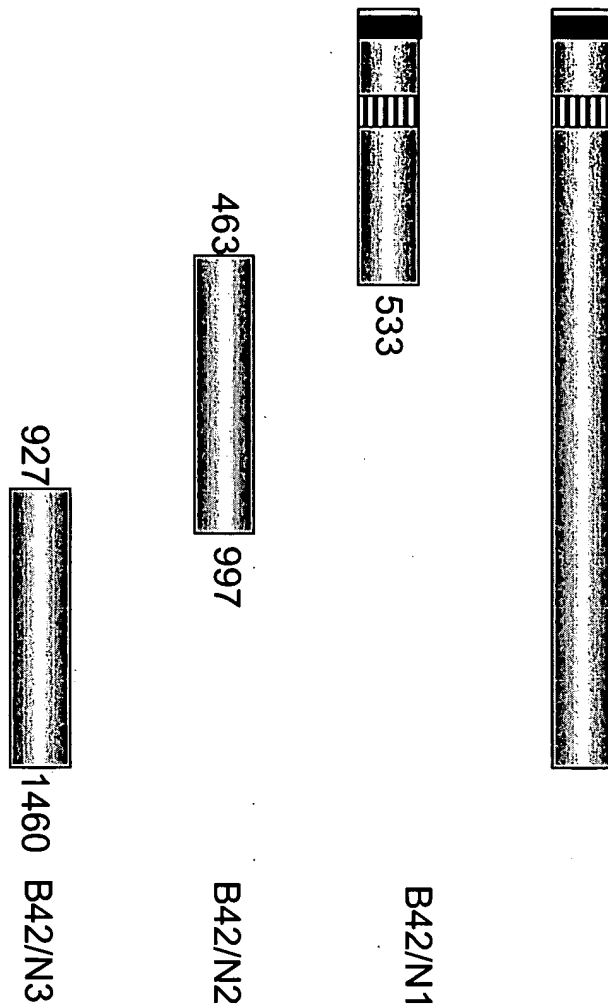


Figure 1B

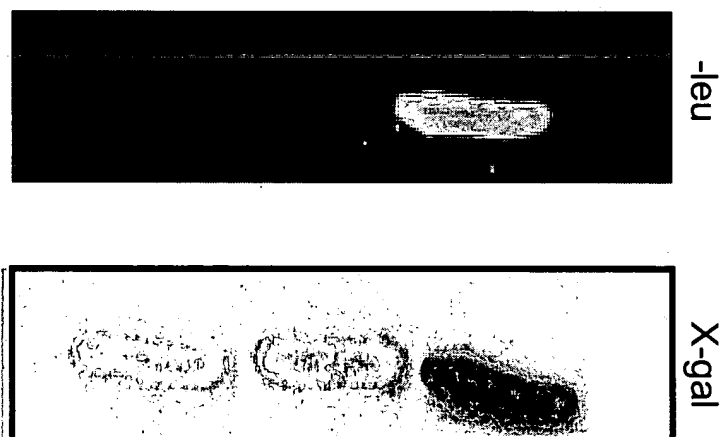


Figure 1C

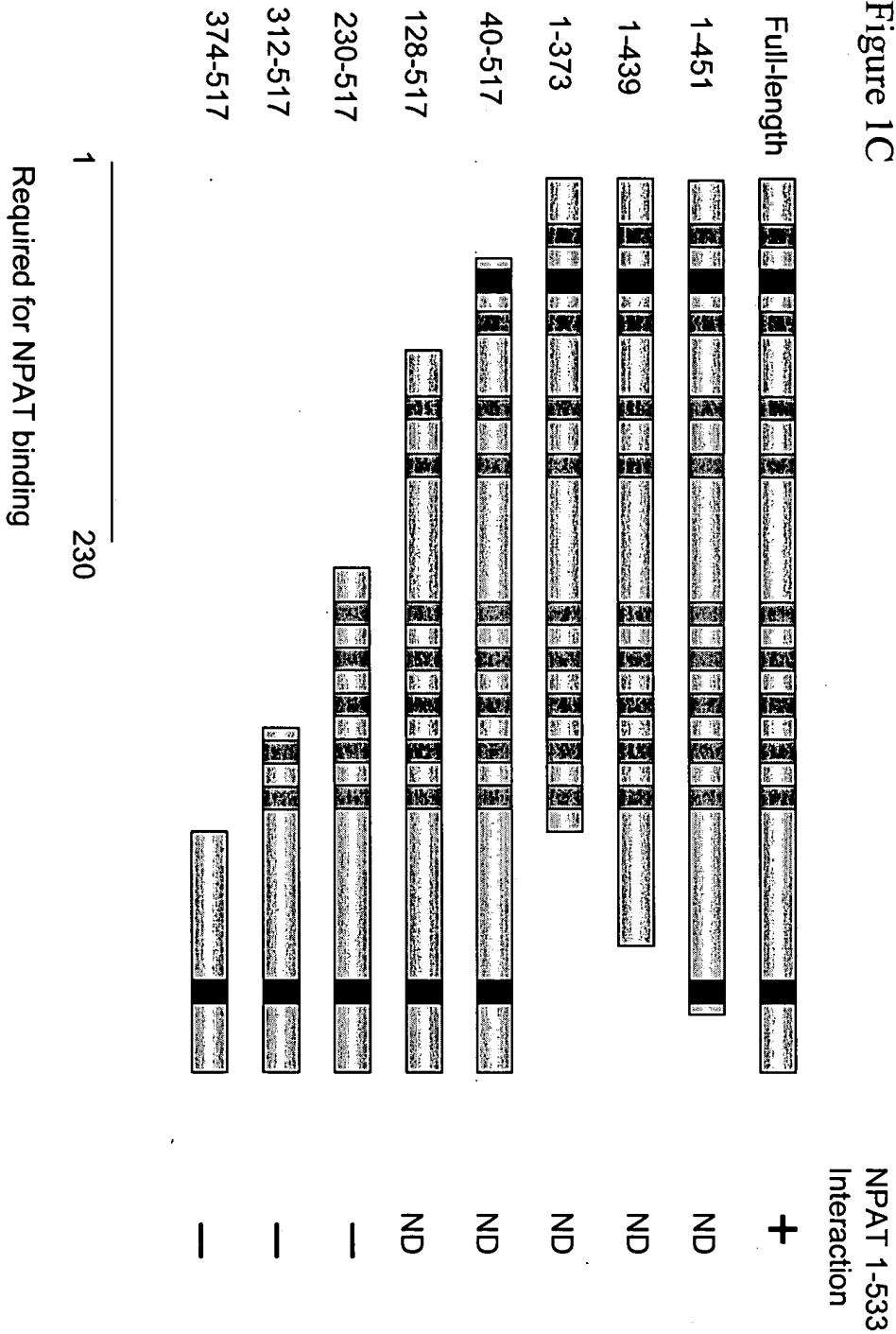


Figure 1D

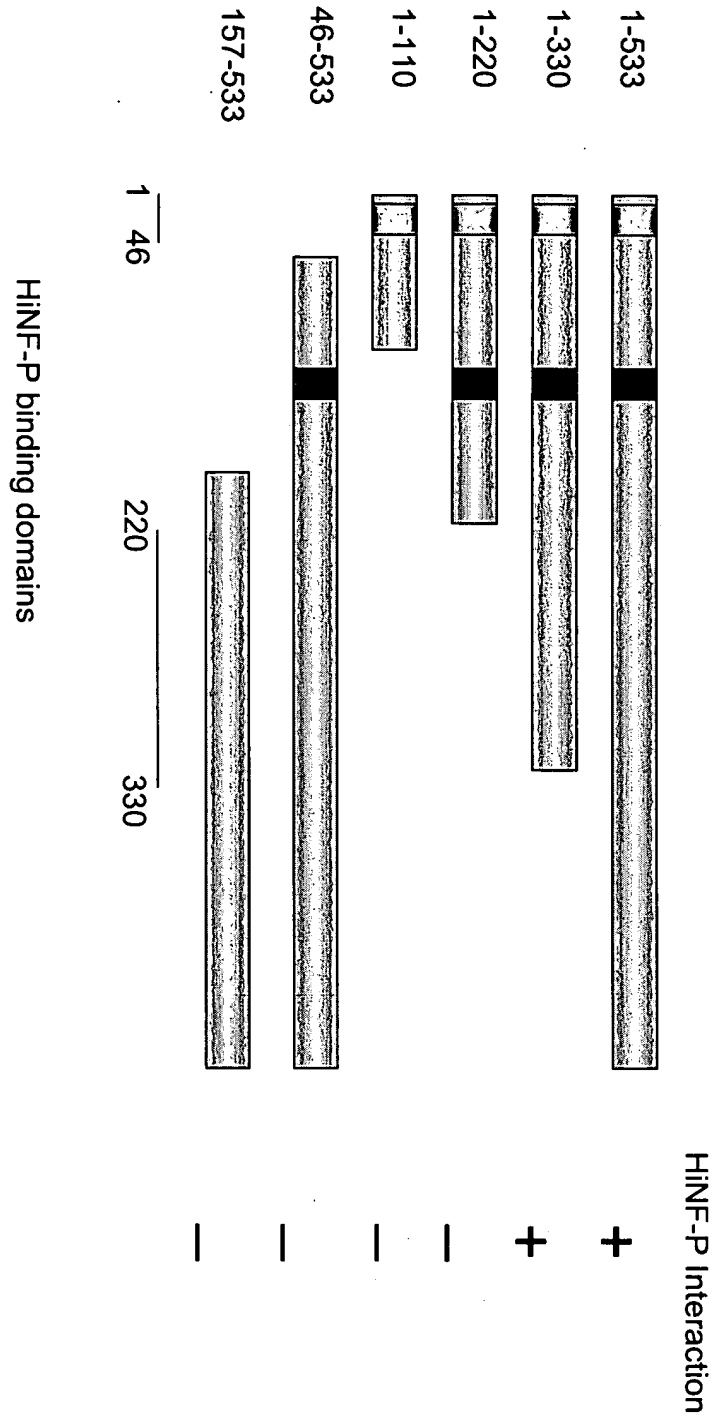


Figure 2A

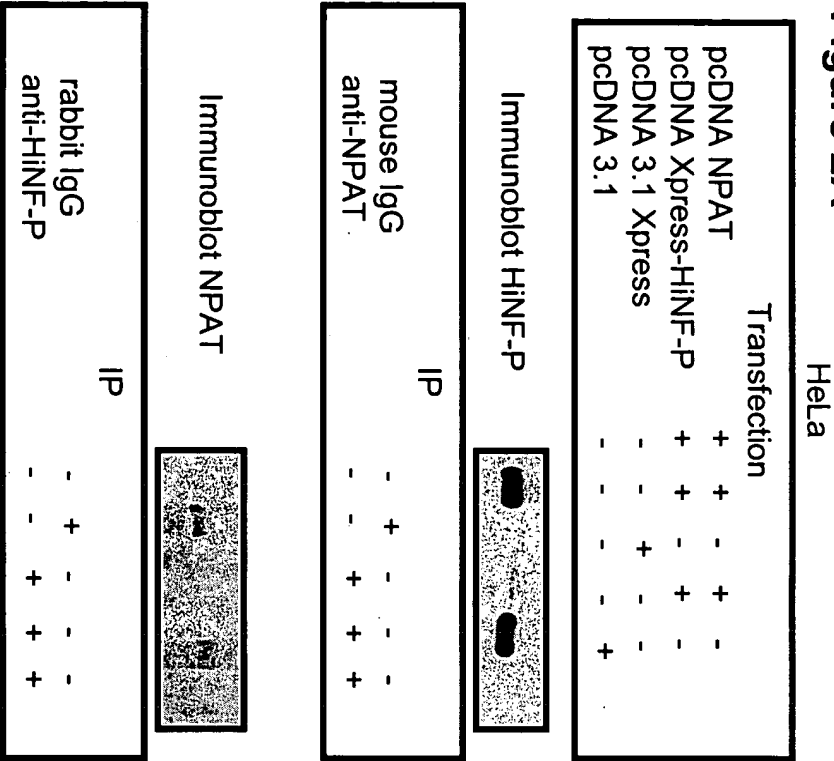


Figure 2B

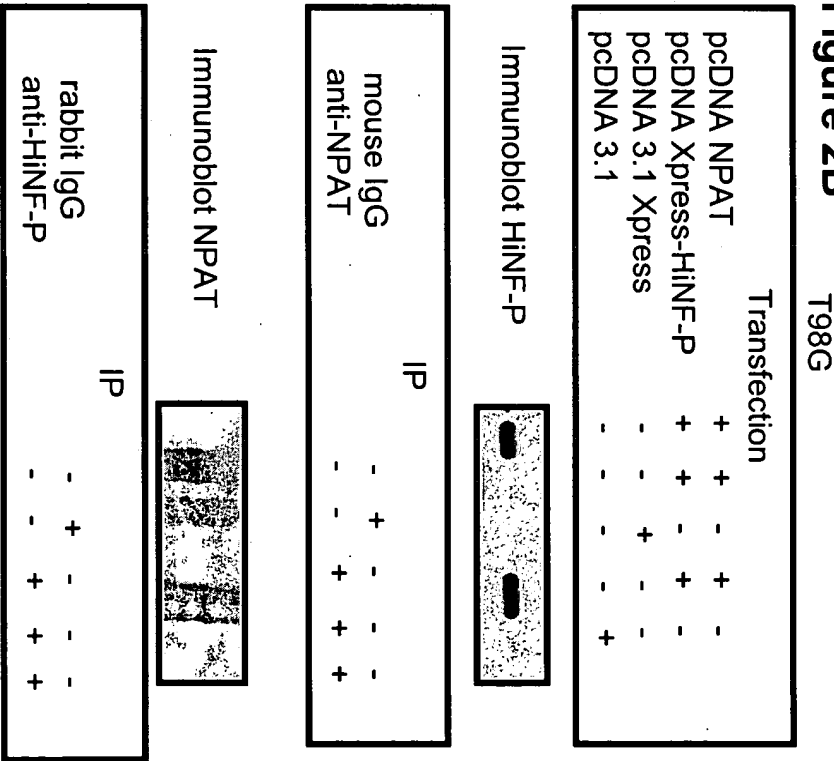


Figure 2C

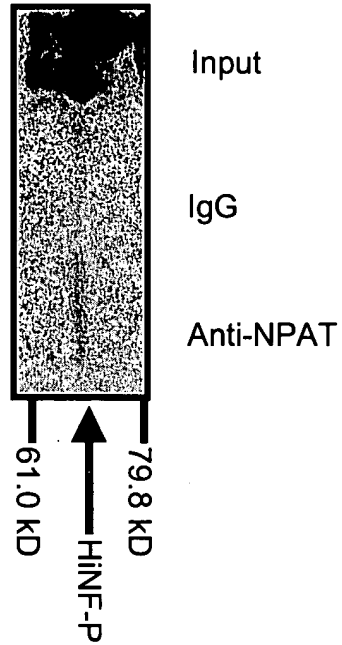


Figure 2D

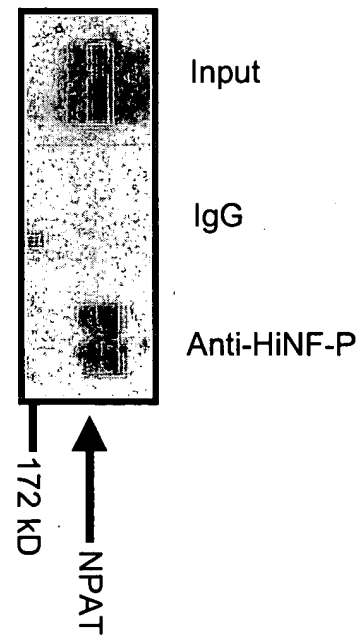


Figure 3

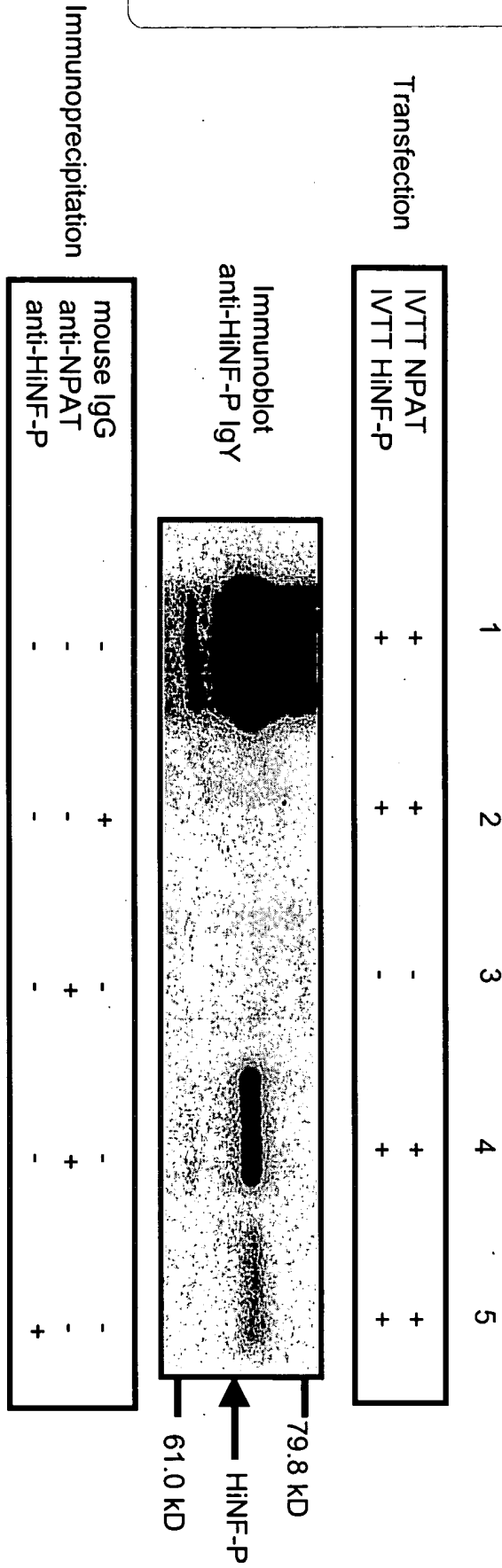


Figure 4A

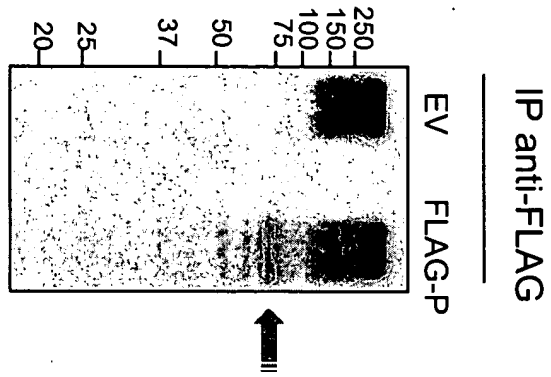


Figure 4B

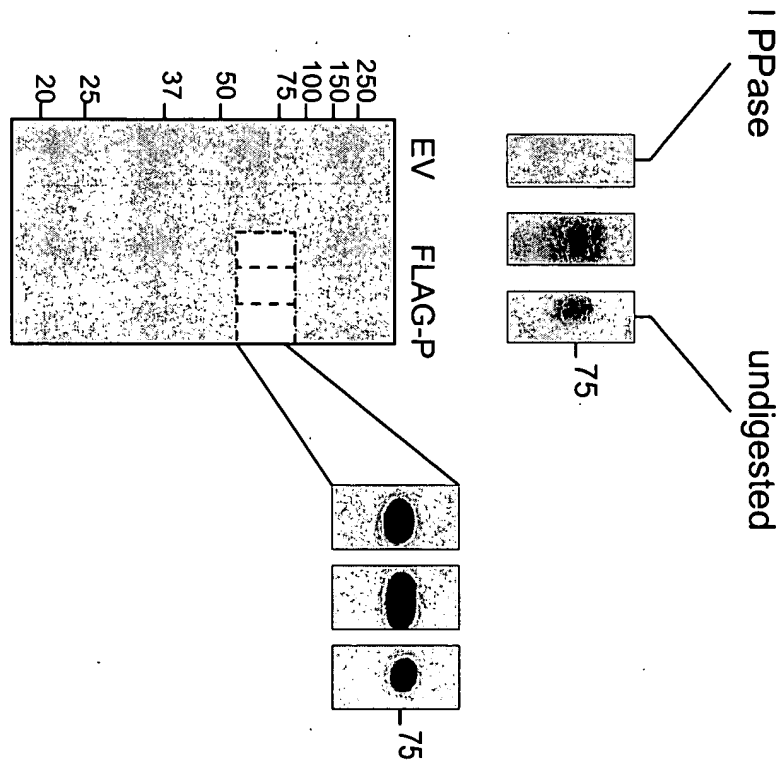


Figure 4C

Organization of the cell cycle regulatory sequences in Site II

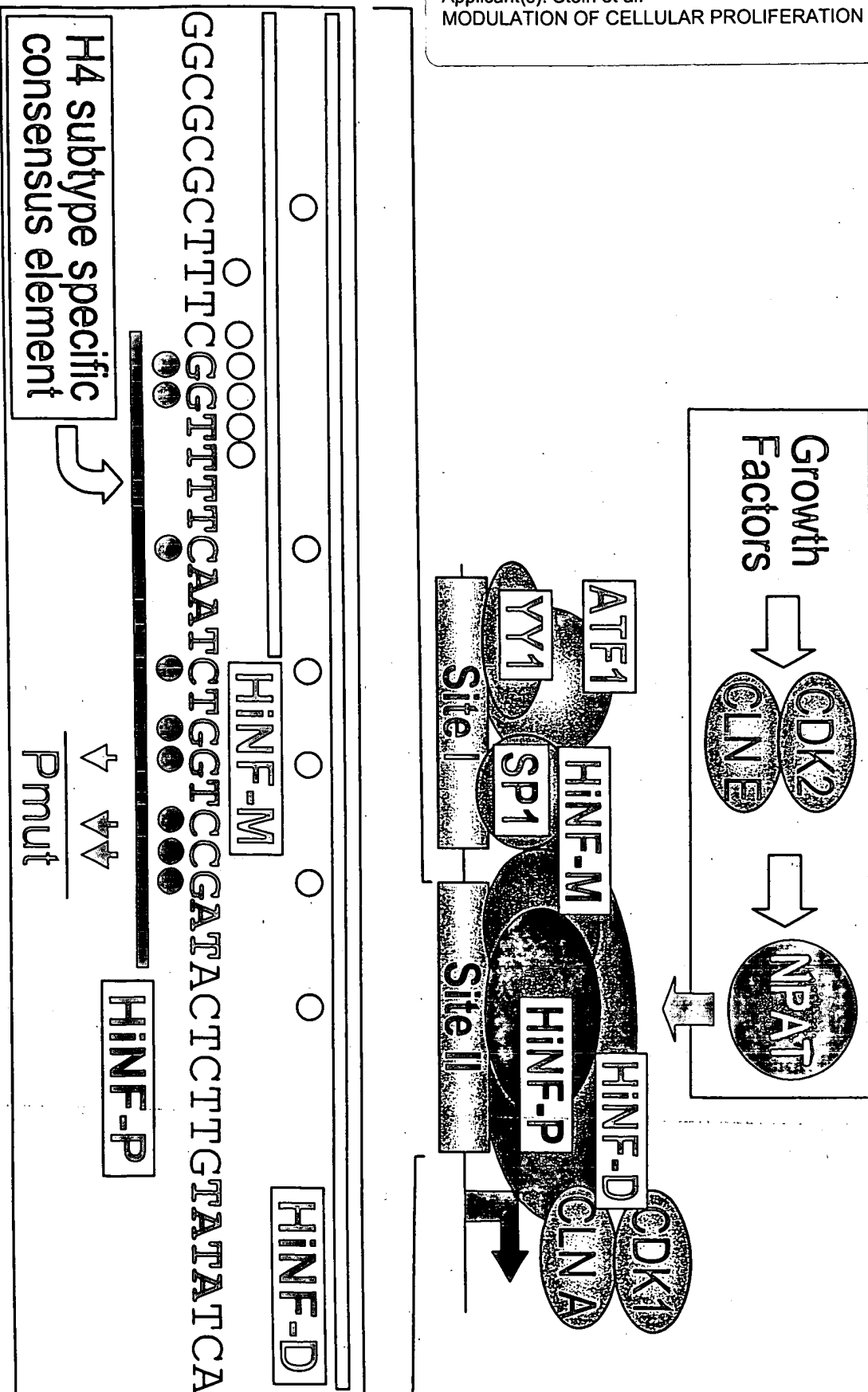
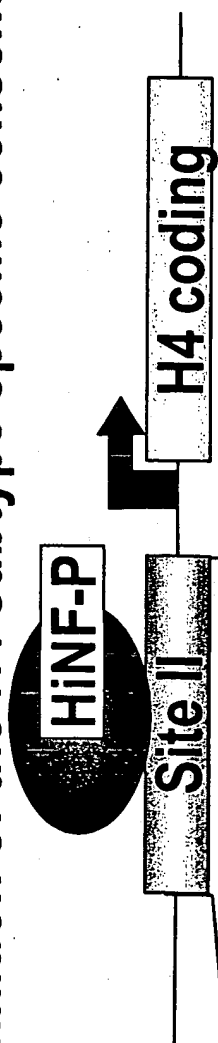


FIG. 5A

Definition of the H4 subtype specific consensus element



HiNF-P

TCGGTTTCAATCTGGTCCGATACTCTGTATATCA

H4/d= ggttctcagttcggtcgccc (SEQ ID NO:21)

H4/e= ggttctcagttcggtcgccc (SEQ ID NO:21)

H4/g= tgttttcaatcaggtccgcc (SEQ ID NO:22)

H4/h= agtcttcaattaggtccgaa (SEQ ID NO:23)

H4/i= agttctcaataagggtccgat (24)

H4/j= agtcttcaatttaggtccgaa (25)

H4/k= agttcccaatcaggtccgat (26)

H4/m= ggttttccagttctgggtccgca (27)

H4/n= ggttttccaatctgggtccgat (28)

CONS= DGTYYCADTYHGGTCCGMH [7/8 nt: TATA]

Legend:
R = A or G
Y = C or T
M = A or C
D = A, G or T
H = A, C or T

(SEQ ID NO:20)

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(SEQ ID NO:29)

FIG. 5B

Site II Competition AssaySite II affinity oligos

C H4/n H4/e H4-Pmut

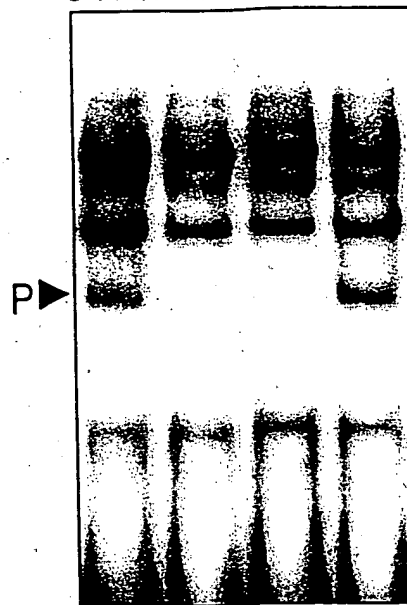
 ^{32}P -Site II

FIG. 6A

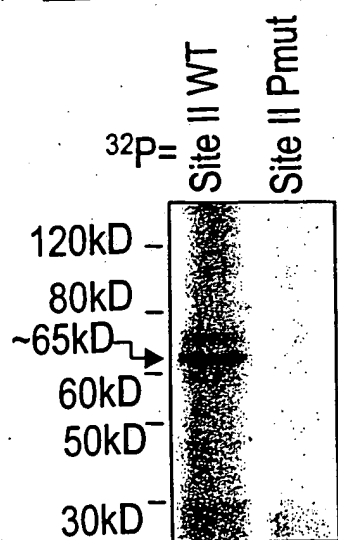
UV Cross-Linking

FIG. 6B

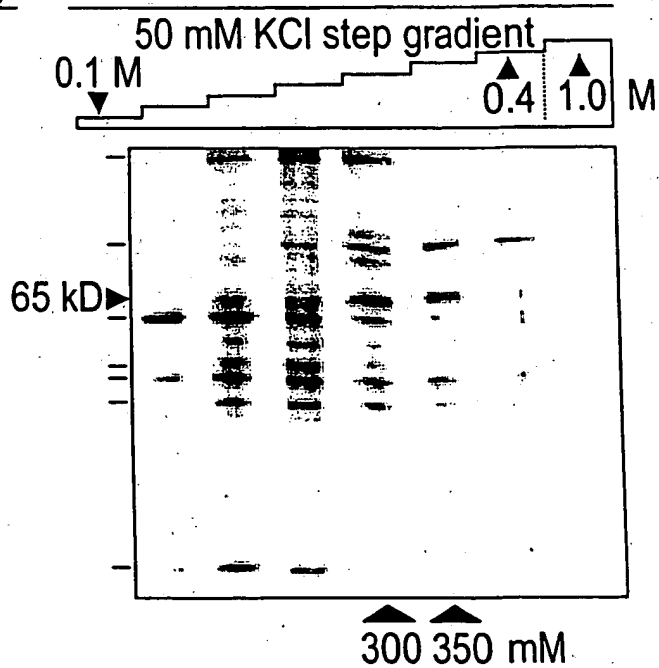
SDS-PAGE/Silver stain

FIG. 6C

HiNF-P Purification Scheme

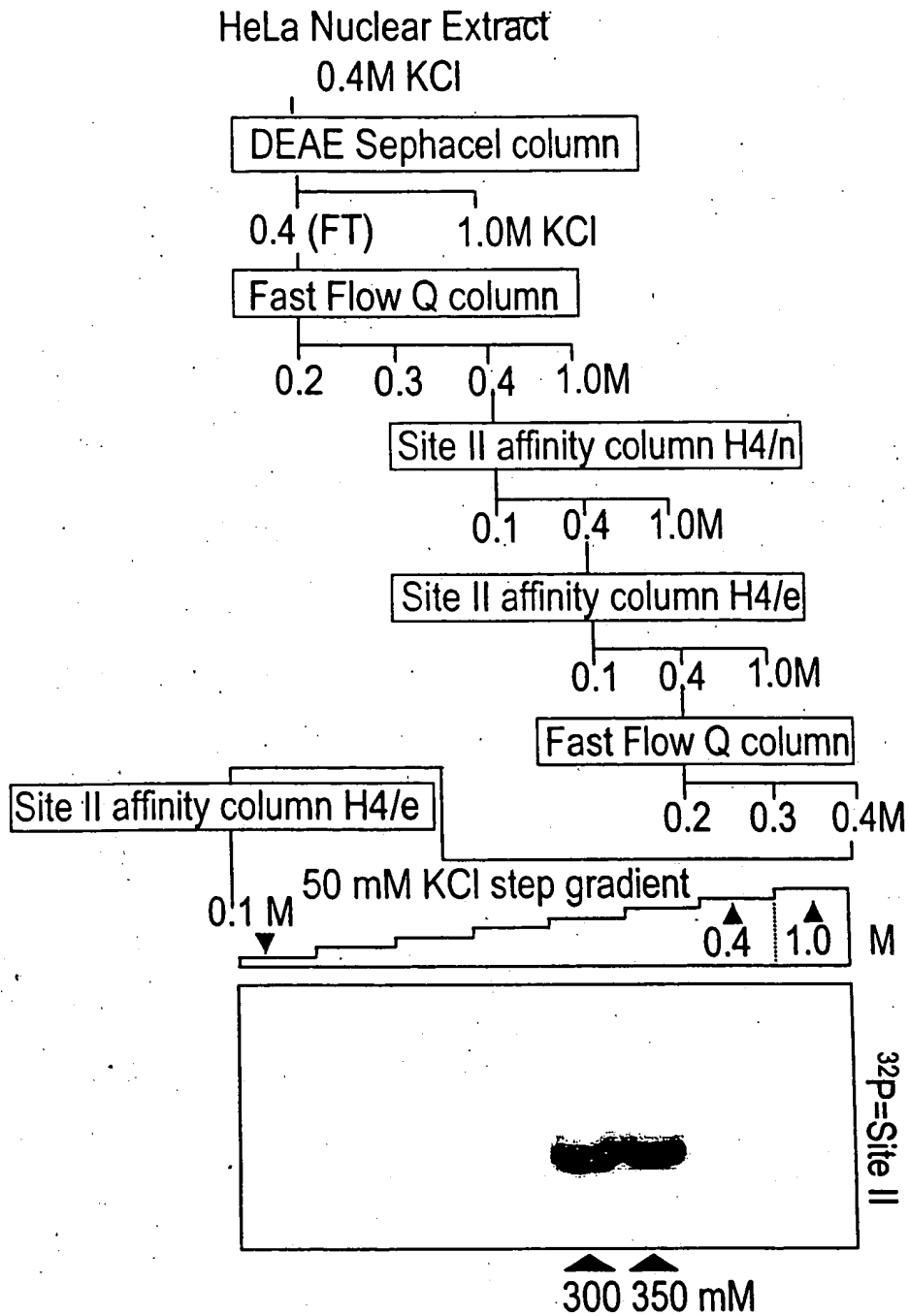


FIG. 6D

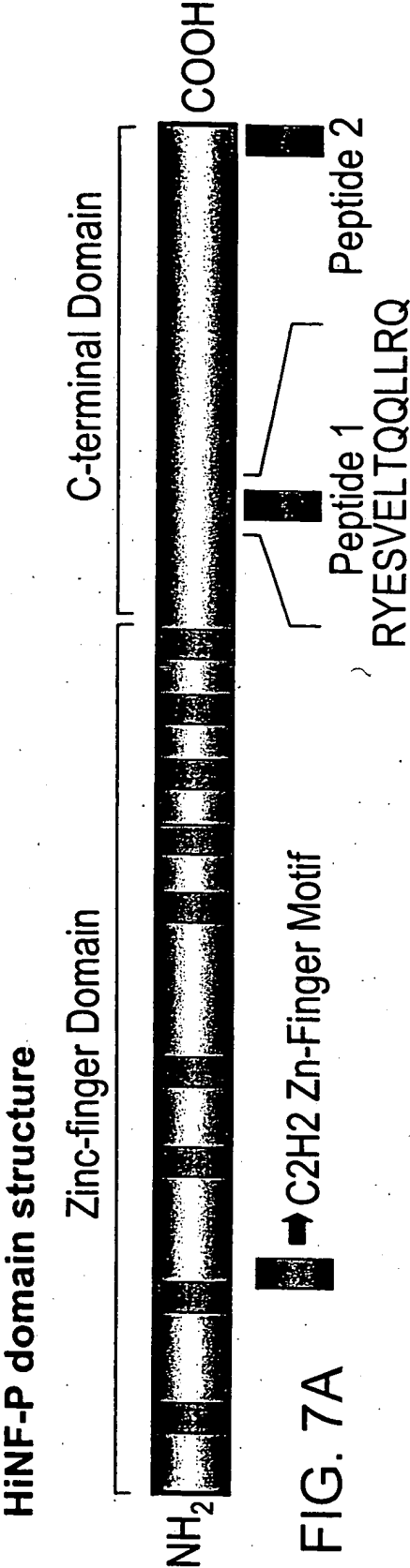


FIG. 7A

SDS-PAGE/IVTT

EMSA/IVTT

³⁵S-methionine

Control
X-tag
HiNF-P

MW (kDa)
120—
80—
60—
50—
30—

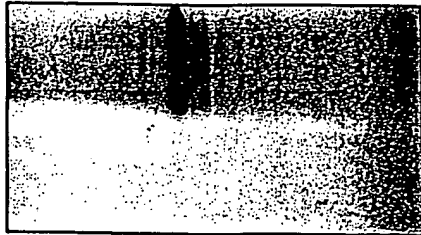


FIG. 7B

NE Xpress HiNF-P HiNF-P

C W M C W M N C W M N

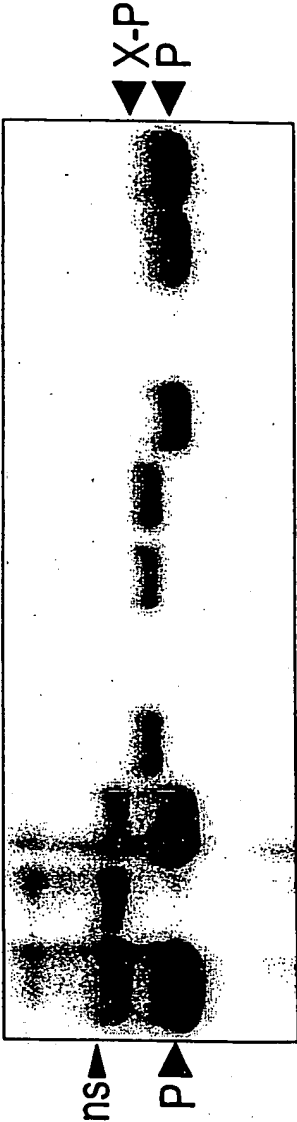


FIG. 7C

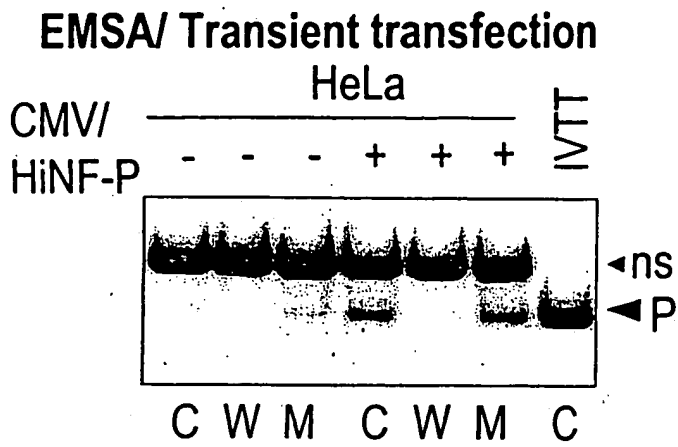


FIG. 7D

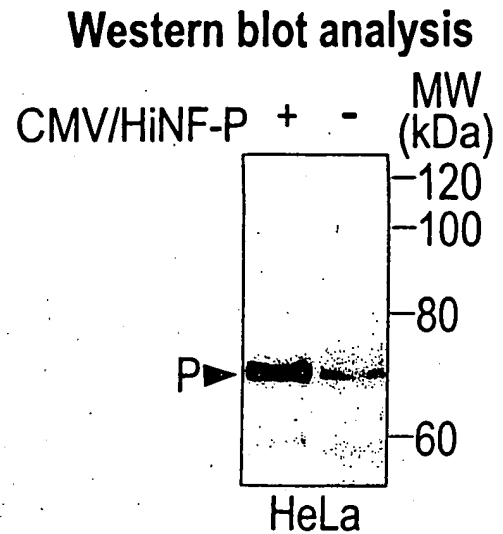


FIG. 7E

EMSA / HiNF-P antisera

Peptide competition

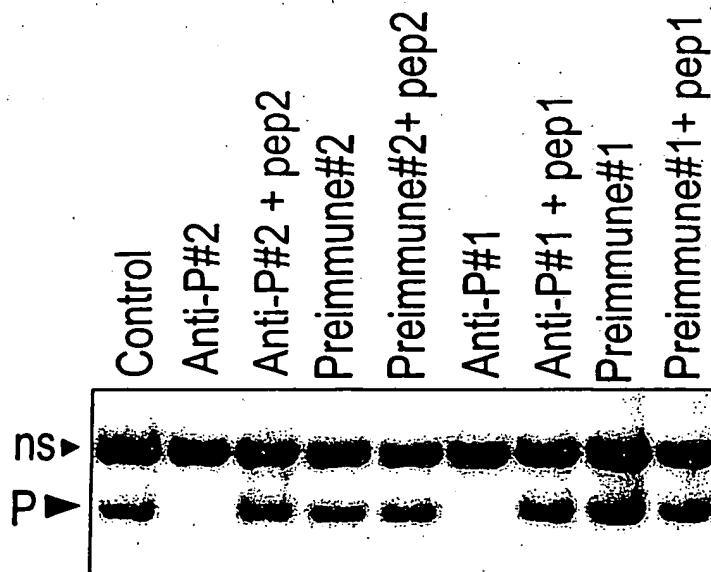


FIG. 7F

LM-PCR analysis

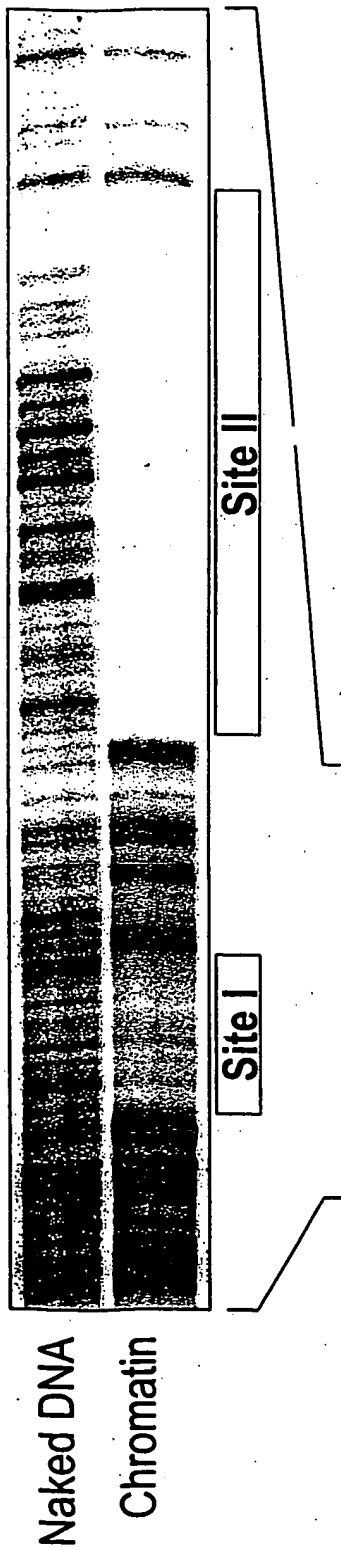


FIG. 8A

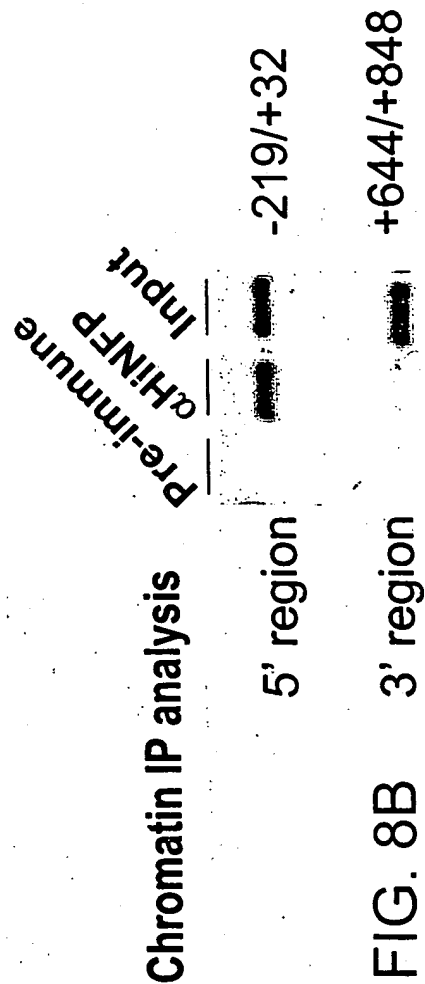
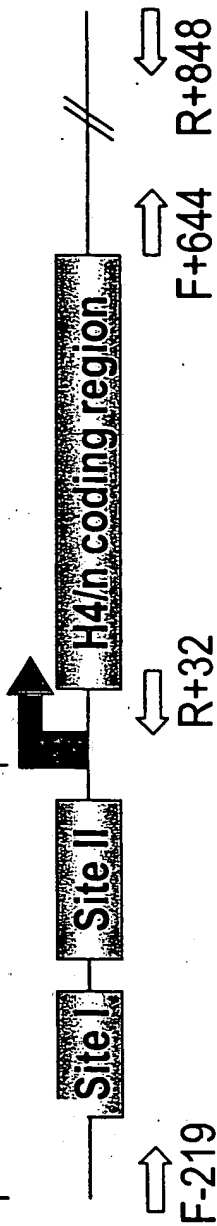


FIG. 8B

HiNF-P regulation

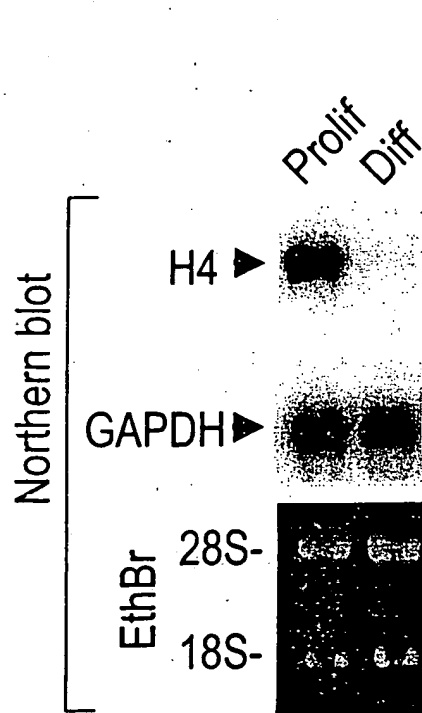


FIG. 9A

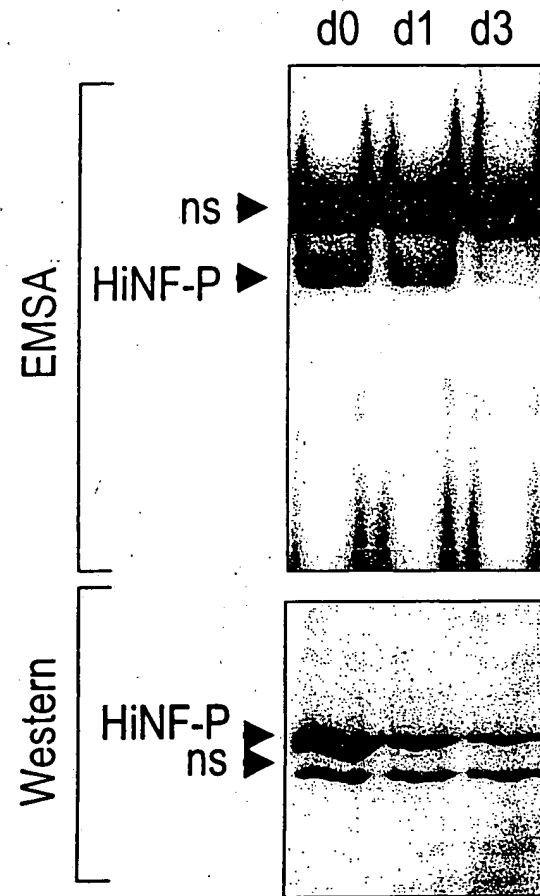


FIG. 9B

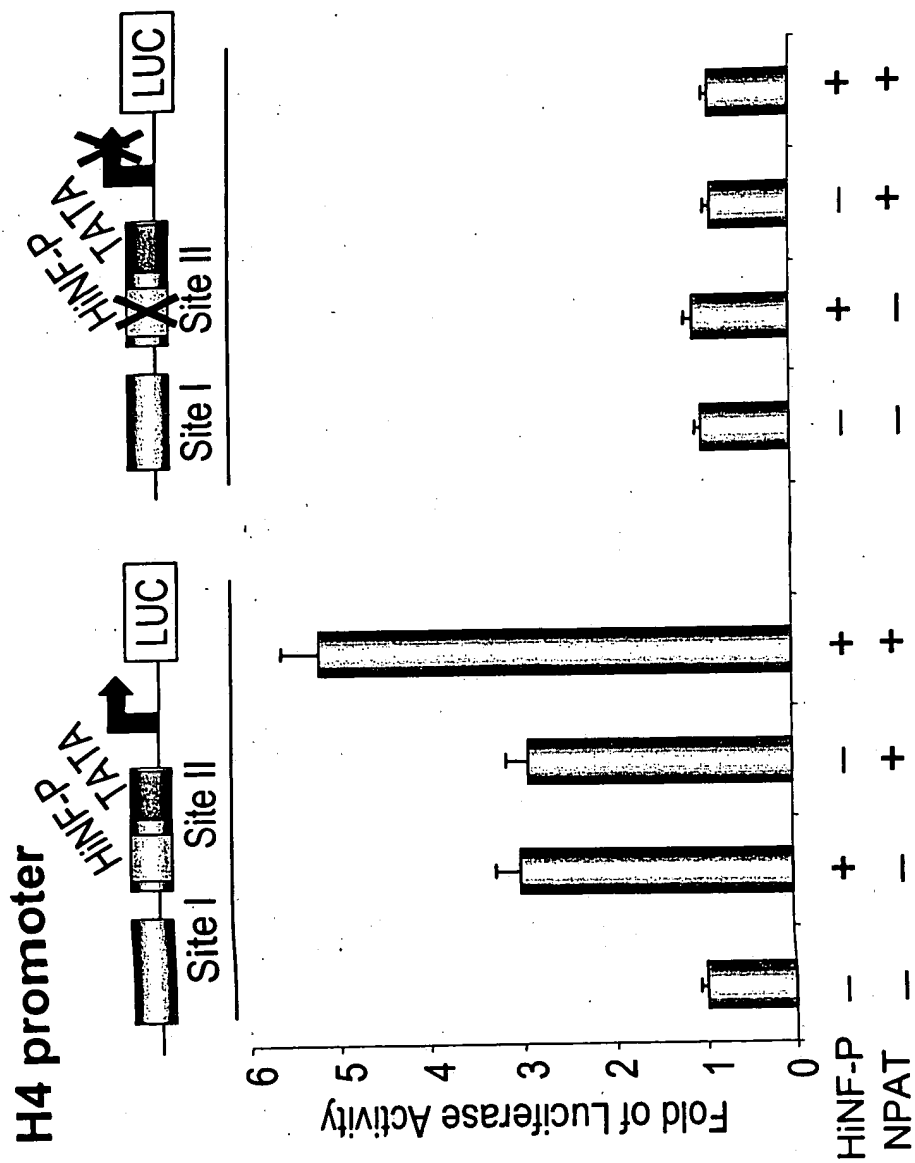


FIG. 10A

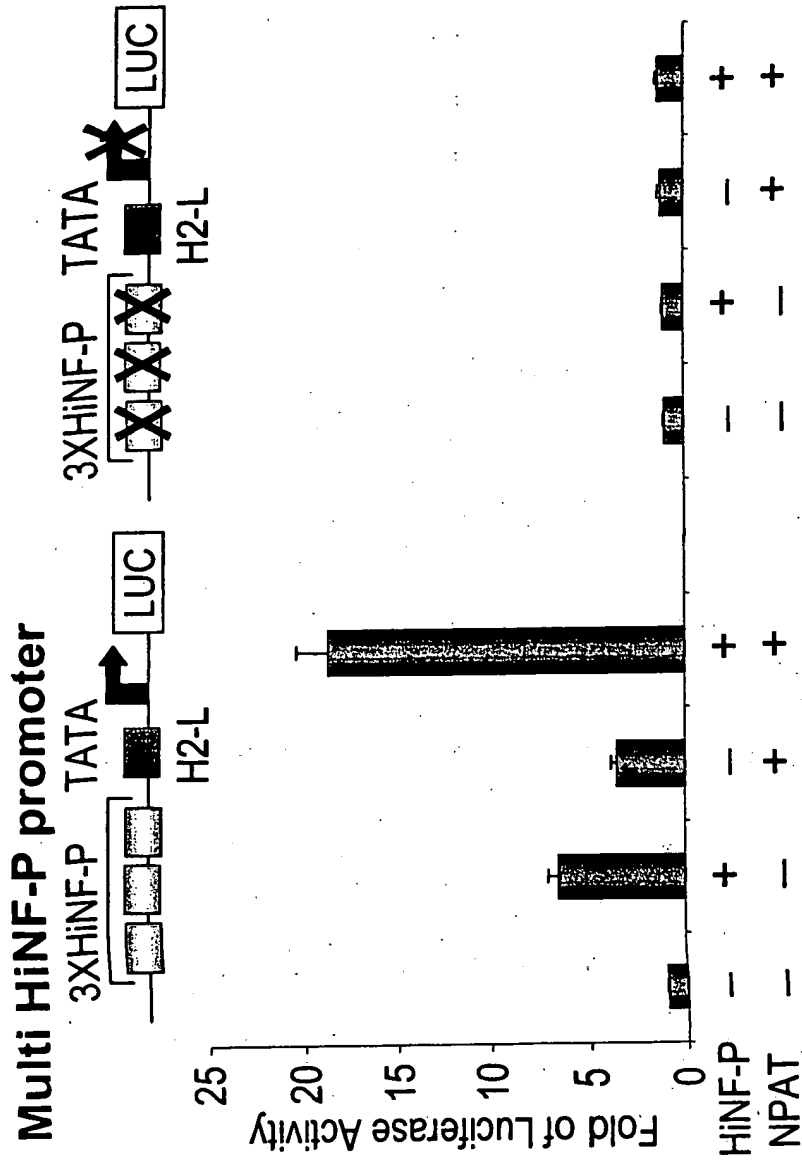


FIG. 10B

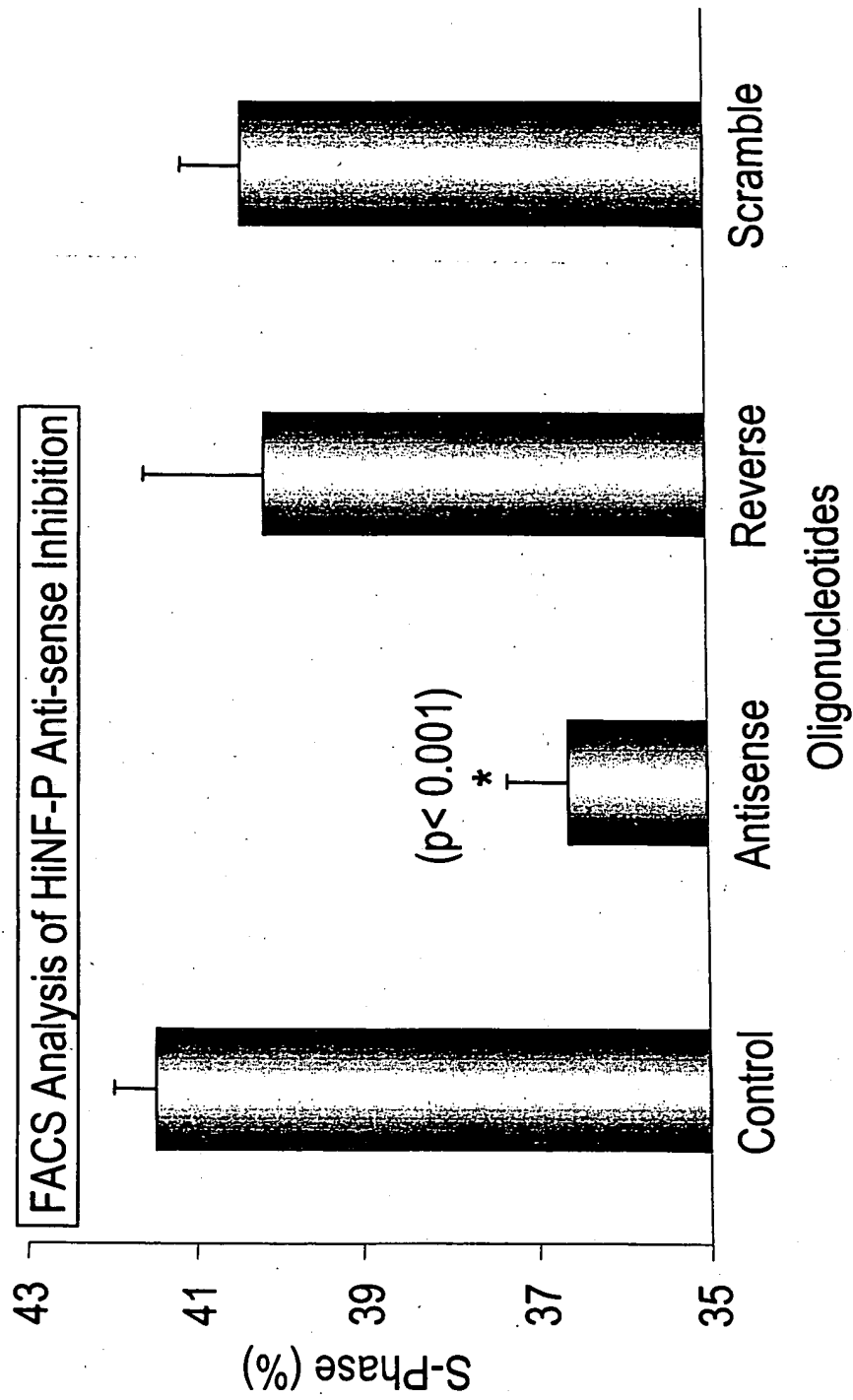


FIG. 11

Figure 12

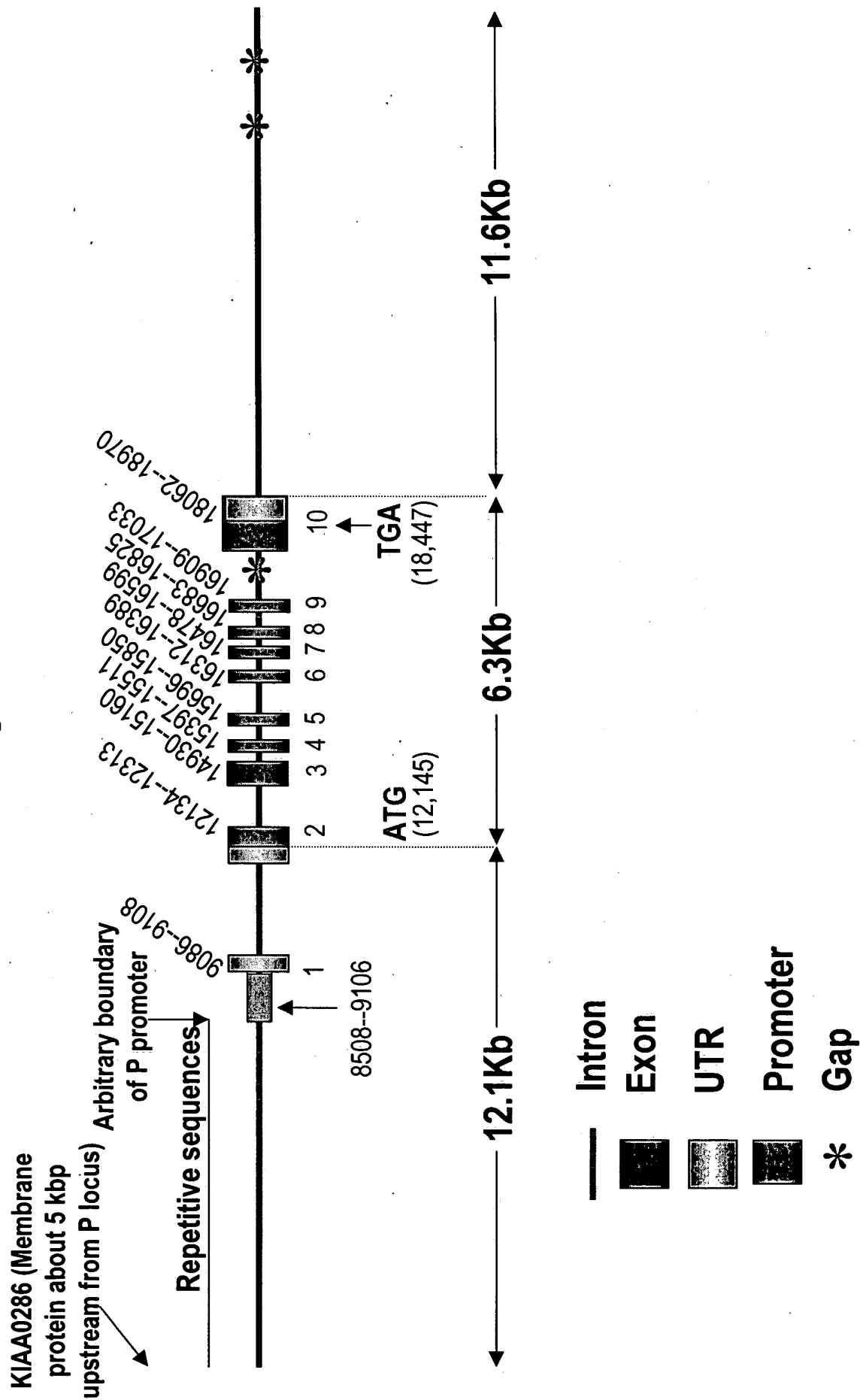


Figure 13A

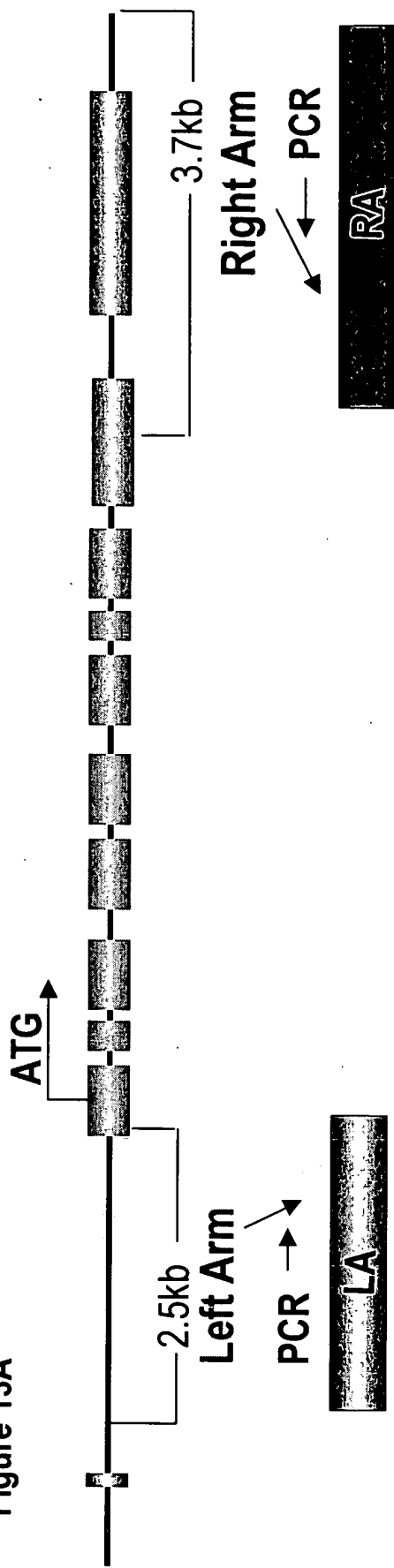


Figure 13B

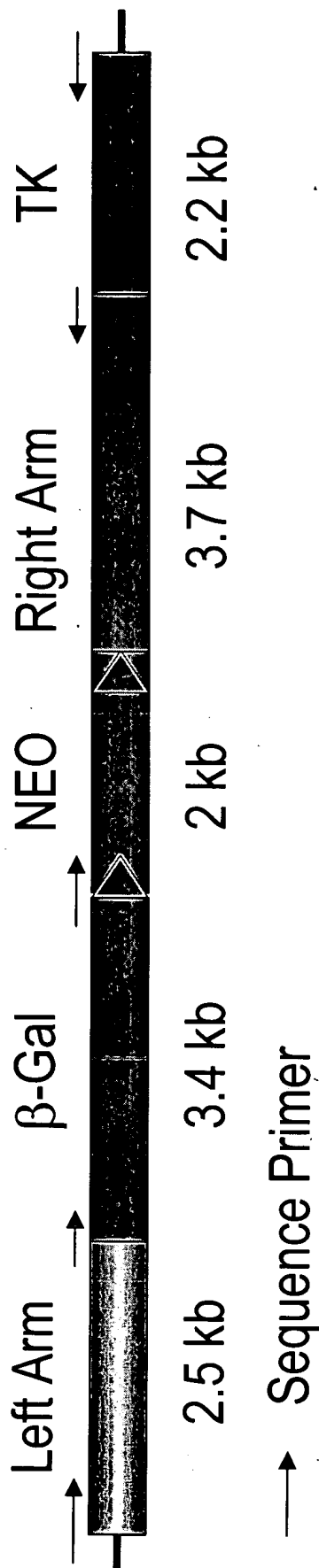


Figure 14A

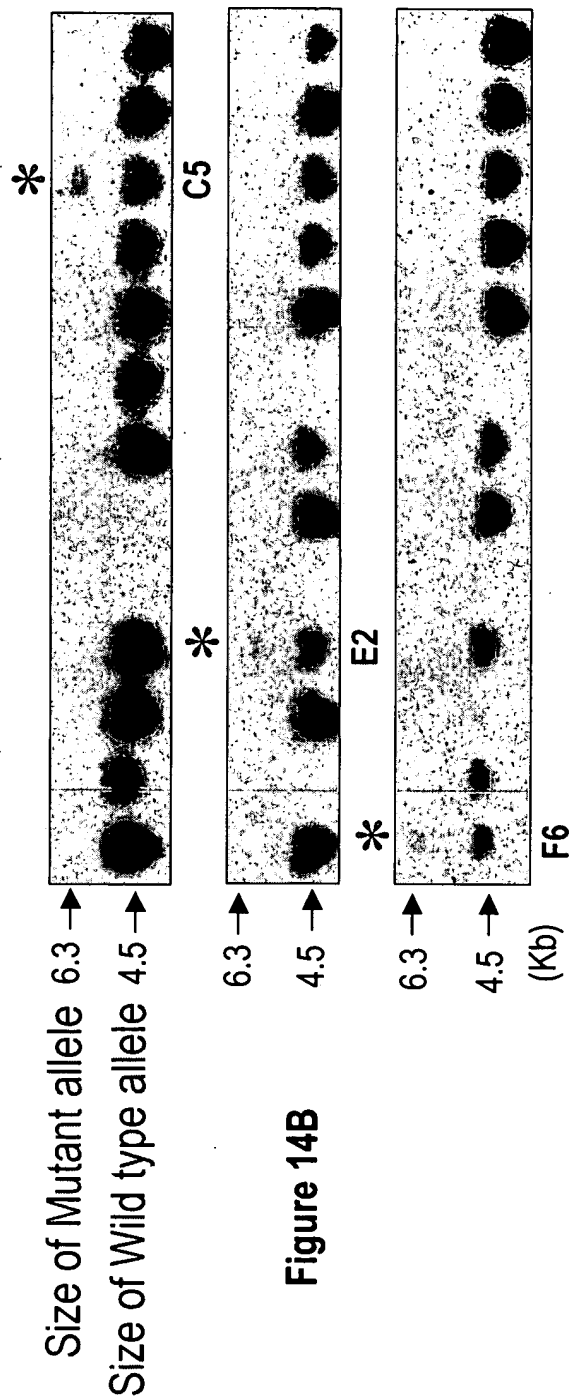
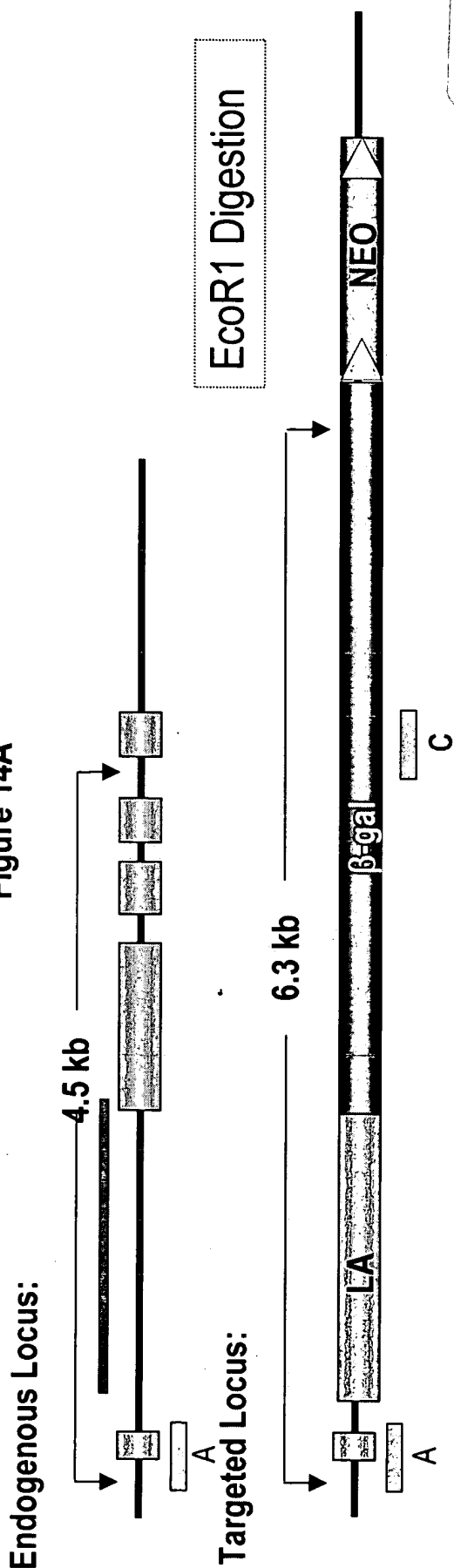


Figure 14C

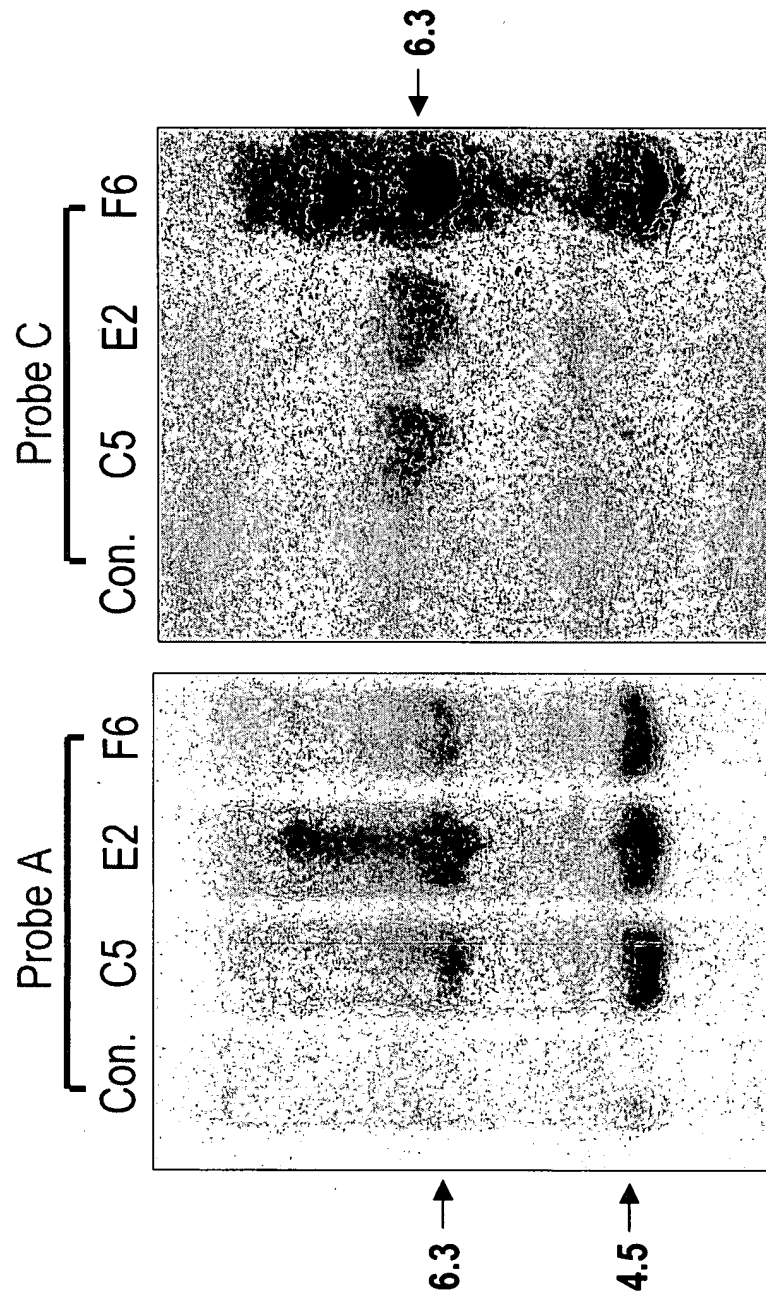
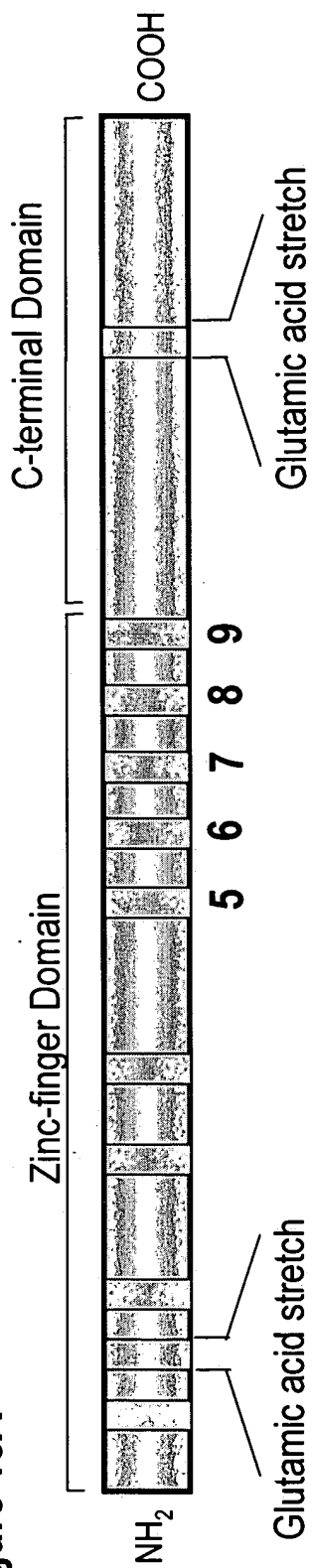
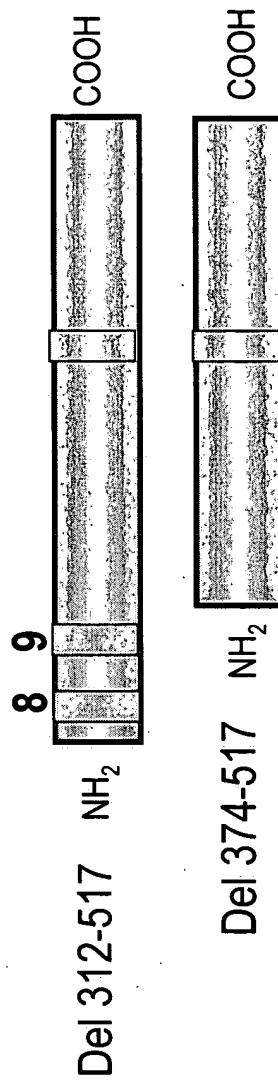


Figure 15A**Figure 15B****Figure 15C**

Protein	DNA binding	Basal Activation	NPAT Co-activation
WT HiNF-P	+	+	+
Del 312-517	-	-	-
Del 374-517	-	-	-

Figure 16

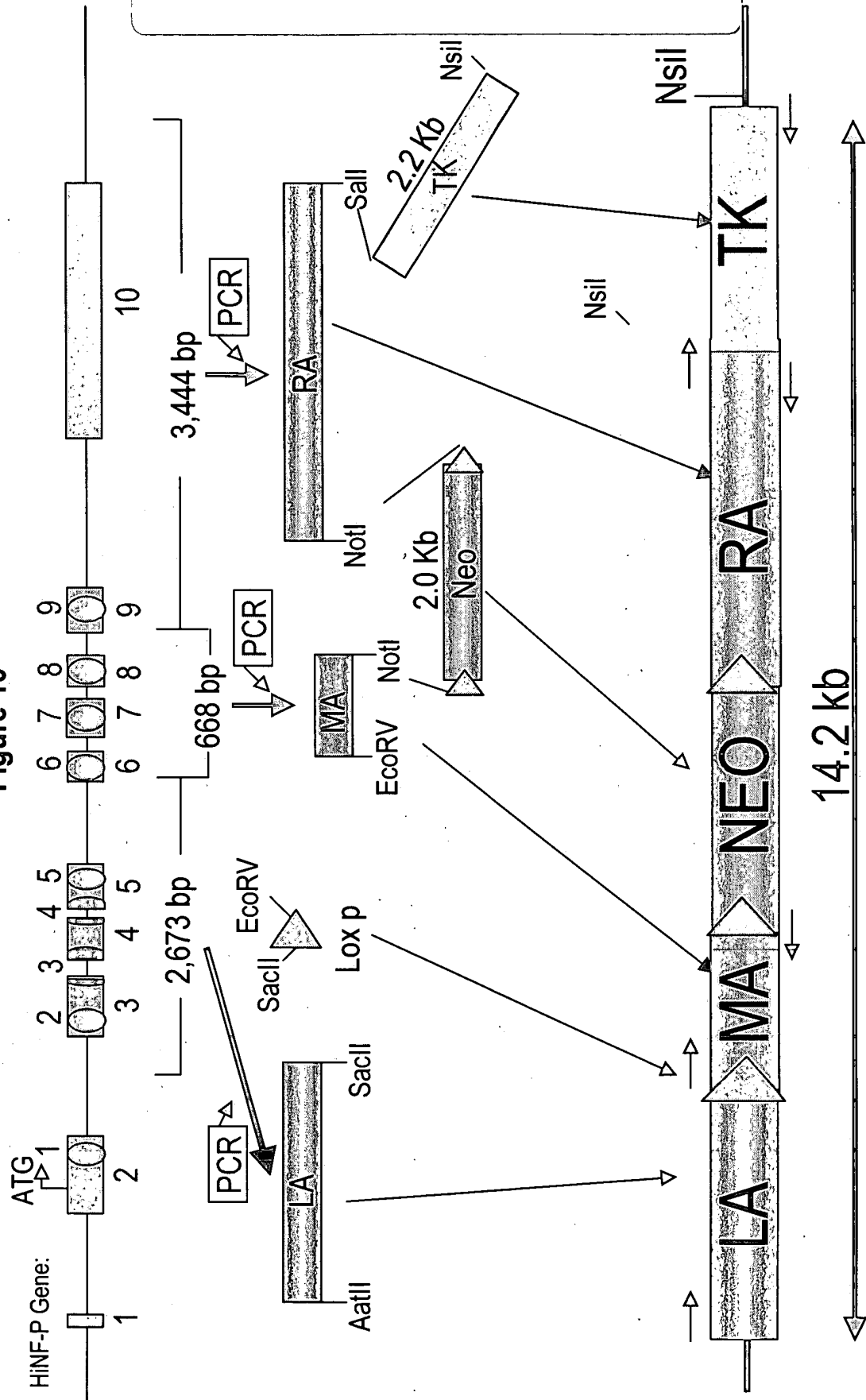


Figure 17

